

**Flood Control Project Maintenance
Levee Inspections**

Fall 2010 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD1001	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.			
Reclamation District No. 1001 Nicolaus	M *	44.03				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.58		0.58	1.32%		
Encroachments	0.14		0.14	0.32%	2.43	0.05
Slope Stability	0.01		0.01	0.02%		
USACE Erosion Survey	0.03	0.34	1.39	3.16%		
<i>LMA Totals:</i>	0.76	0.34	2.12	4.81% *	2.43	0.05

Unit No. 01 Yankee Slough	Overall Unit Rating	Total Unit Miles				
	A	4.17				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Encroachments	0.01		0.01	0.24%	0.06	0.01
<i>Unit Totals:</i>	0.01	0.00	0.01	0.24%	0.06	0.01

Unit No. 02 Yankee Slough	Overall Unit Rating	Total Unit Miles				
	A	3.66				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Encroachments	0.04		0.04	1.09%	0.03	0.02
<i>Unit Totals:</i>	0.04	0.00	0.04	1.09%	0.03	0.02

Unit No. 03 Bear River	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
	M *	12.60				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.06		0.06	0.48%		
Encroachments	0.06		0.06	0.48%	0.57	
Slope Stability	0.01		0.01	0.08%		
USACE Erosion Survey		0.06	0.24	1.90%		
<i>Unit Totals:</i>	0.13	0.06	0.37	2.94% *	0.57	0.00

Unit No. 04 Feather River	Overall Unit Rating	Total Unit Miles				
	M	13.36				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.51		0.51	3.82%		
Encroachments	0.03		0.03	0.23%	0.04	0.01
USACE Erosion Survey	0.03	0.28	1.15	8.61%		
<i>Unit Totals:</i>	0.57	0.28	1.69	12.65%	0.04	0.01

Unit No. 05 Natomas Cross Canal	Overall Unit Rating	Total Unit Miles				
	A	5.44				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Encroachments					1.70	0.01
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	1.70	0.01

**Flood Control Project Maintenance
Levee Inspections**

Fall 2010 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 06 East Side Canal	Overall Unit Rating	Total Unit Miles				
	A	4.80				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.01		0.01	0.21%		
Encroachments					0.03	
<i>Unit Totals:</i>	0.01	0.00	0.01	0.21%	0.03	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2010 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 01 Yankee Slough			Right	4.17
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/16/2010		9/28/2010	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough						Right	4.17	11/02/2010 11/04/2010	Clay Thomas

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.65	4.15	Earthen Levee	Vegetation	WS	A	Control annual grass and weeds on the levee slopes and easements.	38.975088 ° -121.479306 °	38.970574 ° -121.534474 °	2 Y
2	0.65	4.15	Earthen Levee	Vegetation	LS	A	Control annual grass and weeds on the levee slopes and easements.	38.975087 ° -121.479306 °	38.970573 ° -121.534474 °	1 Y
3	0.96	0.96	Earthen Levee	Encroachments	LS CO		Landscaping	38.974569 ° -121.484815 °	38.974569 ° -121.484815 °	15
4	3.16	3.22	Earthen Levee	Encroachments	LS PO		Landscaping	38.965663 ° -121.521023 °	38.965705 ° -121.522098 °	5
5	3.35	3.35	Earthen Levee	Encroachments	LS M		Debris	38.965585 ° -121.524458 °	38.965585 ° -121.524458 °	3

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.17	11/02/2010 11/04/2010	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.65
End Levee Mile	4.15
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Levee mile 0.65, water side vegetation.	
cathom_f_20101108_185.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.65
End Levee Mile	4.15
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Levee mile 0.65, land side vegetation.	
cathom_f_20101108_186.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 02 Yankee Slough			Left	3.66

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/16/2010		9/28/2010	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales RD 1001		Diane Fales RD 1001	

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough						Left	3.66	11/02/2010 11/02/2010	Clay Thomas

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	3.66	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.973588 ° -121.475183 °	38.965668 ° -121.533299 °	1 Y
2	0.22	3.66	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.973589 ° -121.475183 °	38.965800 ° -121.533603 °	2 Y
3	0.52	0.52	Earthen Levee	Encroachments	LS	M	Debris	38.974325 ° -121.480495 °	38.974325 ° -121.480495 °	5
4	0.58	0.58	Earthen Levee	Encroachments	LS	M	Prunings	38.974323 ° -121.481754 °	38.974323 ° -121.481754 °	15
5	0.67	0.67	Earthen Levee	Encroachments	LS	PO	Landscaping	38.974198 ° -121.483150 °	38.974198 ° -121.483150 °	16
6	0.81	0.81	Earthen Levee	Encroachments	LS	M	Debris	38.973605 ° -121.485728 °	38.973605 ° -121.485728 °	7
7	1.25	1.25	Earthen Levee	Encroachments	LS	M	Prunings	38.970654 ° -121.492448 °	38.970654 ° -121.492448 °	4
8	1.77	1.77	Earthen Levee	Encroachments	LS	CO	Landscaping	38.970353 ° -121.501935 °	38.970353 ° -121.501935 °	10
9	1.78	1.78	Earthen Levee	Encroachments	LS	CO	Buildings	38.970347 ° -121.502027 °	38.970347 ° -121.502027 °	11
10	1.79	1.81	Earthen Levee	Encroachments	LS	PO	Landscaping	38.970347 ° -121.502177 °	38.970327 ° -121.502618 °	12

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	11/02/2010 11/02/2010	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	3.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Levee mile 0.00, land side vegetation.	
cathom_f_20101108_187.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.22
End Levee Mile	3.66
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Levee mile 0.00, water side vegetation.	
cathom_f_20101108_188.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 03 Bear River			Left	12.60
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/16/2010		9/28/2010	
DWR Inspector	Clay Thomas		Clay Thomas	
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Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River							Left	12.60	11/10/2010 11/10/2010	Clay Thomas
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	12.60	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	39.006577 ° -121.375160 °	38.941593 ° -121.567358 °	1 Y
2	0.00	12.60	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	39.006577 ° -121.375159 °	38.941593 ° -121.567358 °	2 Y
3	1.21	1.77	Earthen Levee	Encroachments	WS	PO	Poles	39.005316 ° -121.397026 °	38.999814 ° -121.404346 °	3
4	1.47	1.47	Earthen Levee	Slope Stability	CR	M	Repair slope instability.	39.002848 ° -121.400285 °	39.002848 ° -121.400285 °	4
5	3.54	3.54	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.991745 ° -121.434398 °	38.991745 ° -121.434398 °	906
6	3.81	3.81	Earthen Levee	Encroachments	LS	M	Debris	38.991218 ° -121.439413 °	38.991218 ° -121.439413 °	7
7	4.11	4.11	Earthen Levee	Encroachments	LS	C	Prunings	38.991475 ° -121.444728 °	38.991475 ° -121.444728 °	5
8	4.14	4.14	Earthen Levee	Encroachments	LS	M	Material	38.991479 ° -121.445398 °	38.991479 ° -121.445398 °	9
9	4.30	4.61	Earthen Levee	Encroachments	LS	C	Prunings	38.992033 ° -121.448192 °	38.991686 ° -121.453997 °	8
10	4.51	4.54	Earthen Levee	Encroachments	LS	C	Debris	38.991918 ° -121.452003 °	38.991865 ° -121.452612 °	6
11	4.71	4.71	Earthen Levee	Encroachments	LS	M	Prunings	38.991413 ° -121.455866 °	38.991413 ° -121.455866 °	12
12	4.85	4.85	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.990773 ° -121.458203 °	38.990773 ° -121.458203 °	910
13	4.85	4.85	Earthen Levee	Vegetation	LS	A	Elderberries are blocking visibility and flood fight capability.	38.990711 ° -121.458241 °	38.990711 ° -121.458241 °	13
14	4.99	4.99	Earthen Levee	Encroachments	LS	M	Prunings	38.990000 ° -121.460597 °	38.990000 ° -121.460597 °	14
15	5.25	5.25	Earthen Levee	Encroachments	LS	M	Prunings	38.988676 ° -121.465012 °	38.988676 ° -121.465012 °	15
16	5.52	5.52	Earthen Levee	Encroachments	LS	M	Firewood	38.987308 ° -121.469648 °	38.987308 ° -121.469648 °	911
17	10.01	10.01	Earthen Levee	Encroachments	CR	PO	Equipment Inspector Comments: levee blocked for new bridge construction	38.969410 ° -121.542127 °	38.969410 ° -121.542127 °	35
18	11.29	11.32	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.953367 ° -121.551428 °	38.953025 ° -121.551808 °	22

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	11/10/2010 11/10/2010	Clay Thomas

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
19	12.16	12.22	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: 15 ft berm, 1:1 slope, tree hazards, holes, slumping, and seepage, clays and silts, 2.84 ft/s [2009 SiteID:BER_0-8_L]	38.947297 ° -121.563564 °	38.946478 ° -121.564094 °	11 Y
20	12.24	12.24	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.946248 ° -121.564220 °	38.946248 ° -121.564220 °	27

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**Flood Control Project Maintenance
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Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	11/10/2010 11/10/2010	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	12.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Levee mile 0.00, land side vegetation.

cathom_f_20101115_201.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	12.60
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Levee mile 0.00, water side vegetation.

cathom_f_20101115_200.jpg



Levee Mile Report Line	19
Start Levee Mile	12.16
End Levee Mile	12.22
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: 15 ft berm, 1:1 slope, tree hazards, holes, slumping, and seepage, clays and silts, 2.84 ft/s
[2009 SiteID:BER_0-8_L]

cathom_f_20100928_029.JPG



*** Location**

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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 04 Feather River			Left	13.36
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/16/2010		9/28/2010	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

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Reclamation District No. 1001 Nicolaus

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 04 Feather River						Left	13.36	11/09/2010 11/09/2010		Clay Thomas
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.02	13.31	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.941355 ° -121.567477 °	38.781388 ° -121.606388 °	1 Y
2	0.02	13.31	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.941355 ° -121.567477 °	38.781388 ° -121.606388 °	2 Y
3	0.86	0.86	Earthen Levee	Encroachments	LS	M	Prunings	38.929574 ° -121.568246 °	38.929574 ° -121.568246 °	7
4	1.24	1.24	Earthen Levee	Encroachments	LS	M	Prunings	38.924063 ° -121.568628 °	38.924063 ° -121.568628 °	8
5	1.92	1.92	Earthen Levee	Encroachments	LS	M	Prunings	38.915075 ° -121.572300 °	38.915075 ° -121.572300 °	9
6	3.22	3.22	Earthen Levee	Encroachments	LS	PO	Landscaping	38.899732 ° -121.584110 °	38.899732 ° -121.584110 °	31
7	5.42	5.51	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: 5 ft berm, 2.5:1 slope, tree hazards, seepage, and slumping, sands and silts, 9.97 ft/s [2009 SiteID:FHR_7-0_L]	38.879778 ° -121.612228 °	38.878714 ° -121.612728 °	4 Y
8	6.48	6.48	Earthen Levee	Encroachments	LS	PO	Landscaping	38.865653 ° -121.619742 °	38.865653 ° -121.619742 °	17 Y
9	6.64	6.64	Earthen Levee	Encroachments	LS	PO	Landscaping	38.863700 ° -121.621198 °	38.863700 ° -121.621198 °	18
10	8.72	8.72	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.835698 ° -121.634070 °	38.835698 ° -121.634070 °	20
11	9.74	9.74	Earthen Levee	Encroachments	WS	PO	Landscaping	38.833088 ° -121.635103 °	38.833088 ° -121.635103 °	21
12	11.15	11.15	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.802508 ° -121.632862 °	38.802508 ° -121.632862 °	22
13	11.26	11.45	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: 15 ft berm, 1:1 slope, tree hazards and seepage, sands and silts, 5.46 ft/s [2009 SiteID:FHR_1-0_L]	38.800919 ° -121.633050 °	38.798164 ° -121.631939 °	5 Y
14	11.32	11.32	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.800112 ° -121.632242 °	38.800112 ° -121.632242 °	23
15	11.80	11.83	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: 15 ft berm, 2.5:1 slope, tree hazards, seepage, and slumping, sands and cobbles, 4.8 ft/s [2009 SiteID:FHR_0-6_L]	38.793742 ° -121.628514 °	38.793394 ° -121.628156 °	6 Y
16	12.40	12.40	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.787355 ° -121.621165 °	38.787355 ° -121.621165 °	24
17	12.57	12.57	Earthen Levee	Encroachments	LS	CO	Buildings	38.786073 ° -121.618522 °	38.786073 ° -121.618522 °	25

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River				Left	13.36	11/09/2010 11/09/2010	Clay Thomas

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
18	12.74	13.22	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.784513 ° -121.616045 °	38.781862 ° -121.607855 °	26

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
U : Unacceptable N : Not Inspected/Rated

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/09/2010 11/09/2010	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	13.31
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Levee mile 0.00, land side vegetation.	
cathom_f_20101115_198.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.02
End Levee Mile	13.31
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Levee mile 0.00, water side vegetation.	
cathom_f_20101115_199.jpg	



Levee Mile Report Line	7
Start Levee Mile	5.42
End Levee Mile	5.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 2.5:1 slope, tree hazards, seepage, and slumping, sands and silts, 9.97 ft/s [2009 SiteID:FHR_7-0_L]	
cathom_f_20100928_030.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/09/2010 11/09/2010	Clay Thomas

Levee Mile Report Line	8
Start Levee Mile	6.48
End Levee Mile	6.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on the land side shoulder and slope levee mile 6.48.	
cathom_f_20100928_033.jpg	



Levee Mile Report Line	8
Start Levee Mile	6.48
End Levee Mile	6.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping levee mile 6.48.	
cathom_f_20100928_034.jpg	



Levee Mile Report Line	13
Start Levee Mile	11.26
End Levee Mile	11.45
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 15 ft berm, 1:1 slope, tree hazards and seepage, sands and silts, 5.46 ft/s [2009 SiteID:FHR_1-0_L]	
cathom_f_20100928_031.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/09/2010 11/09/2010	Clay Thomas

Levee Mile Report Line	15
Start Levee Mile	11.80
End Levee Mile	11.83
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 15 ft berm, 2.5:1 slope, tree hazards, seepage, and slumping, sands and cobbles, 4.8 ft/s [2009 SiteID:FHR_0-6_L]	
cathom_f_20100928_032.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
U : Unacceptable N : Not Inspected/Rated

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 05 Natomas Cross Canal			Right	5.44
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/16/2010		9/28/2010	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal							Right	5.44	11/04/2010 11/04/2010	Clay Thomas
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.75	Earthen Levee	Encroachments	WS	PO	Poles	38.781240 ° -121.605436 °	38.790073 ° -121.598159 °	2 Y
2	0.02	5.44	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.781394 ° -121.605349 °	38.831062 ° -121.529805 °	4 Y
3	0.02	5.44	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.781395 ° -121.605348 °	38.831061 ° -121.529805 °	1 Y
4	0.19	0.86	Earthen Levee	Encroachments	LS	PO	Poles	38.783758 ° -121.604189 °	38.791058 ° -121.596562 °	5 Y
5	0.83	0.83	Earthen Levee	Encroachments	WS	CO	Buildings	38.790830 ° -121.596973 °	38.790830 ° -121.596973 °	3 Y
6	1.15	1.15	Earthen Levee	Encroachments	LS	PO	Poles	38.793613 ° -121.592230 °	38.793613 ° -121.592230 °	6 Y
7	3.59	3.85	Earthen Levee	Encroachments	LS	PO	Poles	38.814919 ° -121.556712 °	38.817178 ° -121.552965 °	7 Y
8	3.69	3.69	Earthen Levee	Encroachments	WS	W	Equipment	38.815737 ° -121.555338 °	38.815737 ° -121.555338 °	8 Y
9	3.73	3.73	Earthen Levee	Encroachments	WS	W	Equipment	38.816155 ° -121.554650 °	38.816155 ° -121.554650 °	9 Y
10	3.85	3.85	Earthen Levee	Encroachments	WS	W	Equipment	38.817177 ° -121.552967 °	38.817177 ° -121.552967 °	11 Y
11	3.85	3.85	Earthen Levee	Encroachments	LS	PO	Tank	38.817178 ° -121.552965 °	38.817178 ° -121.552965 °	10 Y
12	4.44	4.44	Earthen Levee	Encroachments	CR	W	Material	38.822198 ° -121.544053 °	38.822198 ° -121.544053 °	12 Y

*** Location**

LS : Land Side
WS : Water Side
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**** Rating**

A : Acceptable
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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	11/04/2010 11/04/2010	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Poles on the water side shoulder levee mile 0.00 - 0.75

cathom_f_20100928_035.jpg



Levee Mile Report Line	2
Start Levee Mile	0.02
End Levee Mile	5.44
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Levee mile 0.00, water side vegetation.

cathom_f_20101108_189.jpg



Levee Mile Report Line	3
Start Levee Mile	0.02
End Levee Mile	5.44
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Levee mile 0.00, land side vegetation.

cathom_f_20101108_190.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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CO : Completely Obstructing
N : Not Inspected/Rated

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	11/04/2010 11/04/2010	Clay Thomas

Levee Mile Report Line	4
Start Levee Mile	0.19
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Poles at the land side toe levee mile 0.19 - 0.86.

cathom_f_20100928_038.jpg



Levee Mile Report Line	5
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Pump house on the water side levee mile 0.83.

cathom_f_20100928_036.jpg



Levee Mile Report Line	5
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Pump house and Caretakers home levee mile 0.83

cathom_f_20100928_037.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	11/04/2010 11/04/2010	Clay Thomas

Levee Mile Report Line	6
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pole on land side shoulder levee mile 1.15.	
cathom_f_20100928_039.jpg	



Levee Mile Report Line	6
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Pole on land side shoulder.	
cathom_f_20100928_040.jpg	



Levee Mile Report Line	7
Start Levee Mile	3.59
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Poles on the land side shoulder levee mile 3.59 - 3.85.	
cathom_f_20100928_041.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	11/04/2010 11/04/2010	Clay Thomas

Levee Mile Report Line	8
Start Levee Mile	3.69
End Levee Mile	3.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Pump water side levee mile 3.69.

cathom_f_20100928_042.jpg



Levee Mile Report Line	11
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Storage tank on land side slope levee mile 3.85.

cathom_f_20100928_043.jpg



Levee Mile Report Line	12
Start Levee Mile	4.44
End Levee Mile	4.44
Location	Crown
Category	Earthen Levee
Item	Encroachments

Levee stops at hwy 70 and starts again on the other side of hwy 70.

cathom_f_20100928_044.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 06 East Side Canal			Right	4.80

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/16/2010		9/28/2010	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 06 East Side Canal				Right	4.80	11/04/2010 11/04/2010	Clay Thomas	

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.09	4.73	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.832081 ° -121.528833 °	38.896330 ° -121.520551 °	1 Y
2	0.09	4.73	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.832081 ° -121.528833 °	38.896330 ° -121.520550 °	2 Y
3	1.06	1.06	Earthen Levee	Encroachments	LS	PO	Landscaping	38.845643 ° -121.524363 °	38.845643 ° -121.524363 °	5 Y
4	1.37	1.37	Earthen Levee	Encroachments	LS	PO	Equipment	38.850042 ° -121.524359 °	38.850042 ° -121.524359 °	6 Y
5	1.45	1.45	Earthen Levee	Encroachments	LS	PO	Equipment	38.851272 ° -121.524357 °	38.851272 ° -121.524357 °	3 Y
6	4.51	4.51	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.895287 ° -121.524473 °	38.895287 ° -121.524473 °	10

*** Location**

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CR : Crown

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N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	11/04/2010 11/04/2010	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.09
End Levee Mile	4.73
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Levee mile 0.00, land side vegetation.	
cathom_f_20101108_191.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.09
End Levee Mile	4.73
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Levee mile 0.00, water side vegetation.	
cathom_f_20101108_192.jpg	



Levee Mile Report Line	3
Start Levee Mile	1.06
End Levee Mile	1.06
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on the land side slope L/M 1.06.	
cathom_f_20100928_046.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	11/04/2010 11/04/2010	Clay Thomas

Levee Mile Report Line	4
Start Levee Mile	1.37
End Levee Mile	1.37
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Equipment at the land side toe L/M 1.37.	
cathom_f_20100928_047.jpg	



Levee Mile Report Line	5
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Equipment at the land side toe L/M 1.45.	
cathom_f_20100928_045.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
U : Unacceptable N : Not Inspected/Rated